



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,091	12/30/2005	Jacobus A.M. Thomassen	095575-0234	8135
22428 7590 11/17/2009 FOLEY AND LARDNER LLP SUITE 500 3000 K STREET NW WASHINGTON, DC 20007				
EXAMINER				
NGUYEN, TAI V				
ART UNIT		PAPER NUMBER		
3729				
MAIL DATE		DELIVERY MODE		
11/17/2009		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary**Application No.**

10/563,091

Applicant(s)

THOMASSEN, JACOBUS A.M.

Examiner

TAI NGUYEN

Art Unit

3729

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 August 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 8-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 8-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SF/ICE)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. Applicant's amendment filed on 8/12/2009 have been fully considered and made of record.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 8-13, 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over anticipated Stridsberg (US 5,778,524).

Stridsberg discloses a component placement device comprising: an elongated transport device 59 that is configured to transport a first substrate 57 (note 57 is first and 58 is second substrate) in a transport direction parallel to the transport device (see Fig. 4, col. 4, lines 54-67 and col. 5, lines 11-21); at least one component feeder 55 (plurality from magazine 52-54) that is located along a longitudinal side of the transport device 59 (col. 5, lines 11-21); at least one component pick-and-place unit 50 that is configured to (see Fig. 4): a) pick-up a component 55 from the at least one component feeder 55; and (b) place the component from the feeder 55 on the first substrate 57 supported by the elongated transport device 59; and at least one substrate support 59, 60, 61 that is configured a support a second substrate 58, wherein the at least one substrate support 41-44 is positioned on only one longitudinal side of the transport

device 59 that is opposite from the longitudinal side at which the component feeder 55 (from magazine 52-54), and the at least one substrate support 41-42 having has a longitudinal direction that extends perpendicular to the transport direction of 59 (Fig. 4, col. 9, lines 48-56), wherein the at least one component pick-and-place unit 50. 51 is further configured to: (c) pick-up a component from the at least one component feeder 55 (see Fig. 4); and (d) move the component over the elongated transport device to place the component on the second substrate 58 supported by the substrate support 41, 42 (see Fig. 4, col. 6, lines 9-65)

As applied to claim 9, Stridsberg discloses the substrate support 41, 42 which is detachably connected to one the component placement device 50, 51 (see Fig. 4).

As applied to claim 10, Stridsberg discloses the substrate support 41, 42 further comprises drive means configured to transport the second substrate 58 in a feeding direction that extends traverse to the transport direction (see Figs. 4-5.

As applied to claims 11-13, Stridsberg discloses wherein the transport device 59 comprises two guide rail that extends parallel to the transport direction (see Fig. 4 which shows 59 having parallel guide each sides), wherein the at least one guide profile is connected to the substrate support 41, 42 , and wherein the guide rail is configured to be moved simultaneously with the substrate support in a direction that extends transverse to the transport direction perpendicular to transport direction (see Fig. 4-5, col. 9, lines 48-56).

As applied to claim 19, Stridsberg discloses the at least one substrate support is configure to move the second substrate 58 in a direction perpendicular to the transport direction (see Figs. 4-5, col. 9, 48-56).

As applied to claim 20, refer to claim 20 the reject of claims 8 as above.

3. Claims 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stridsberg in view of Munezane et al (US 6,000,123).

Stridsberg do not teach the adjustable guides. The Munezane teaches that (see Fig. 6 of the Munezane, which depicts the adjustable guide members by motor 32 for accommodative a various size of print circuit board). Therefore, it would have been obvious to one of ordinary skill in the art at this time the invention was made to employ the Munezane's teaching of adjustable guide members for supporting number of print circuit board with different sizes in length and width or the like, with the adjustable support guide. The motivation can be obtained by Munezane's col. 10.

4. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stridsberg in view of Kanayama et al (US 5,894,657).

Stridsberg do not teach the substrate support is configured to be moved vertically from a position parallel to the transport device to a position underneath the transport device. The Kanayama et al teach that see Fig. 13 which shows the support substrate 17 having multi coordinate system and can be moved in vertical direction (see arrow indicated for Z-direction. Therefore, it would have been obvious to one having an

ordinary skill in the art at this time the invention was made to employ the Kanayama's teaching of the substrate support 17 which can be positioned underneath the transport device by the arrow indicated in Fig. 13 in order to facilitate the transferring of the workpiece i.e., PCB or the like in an effective and efficiency manner.

Response to Arguments

5. Applicant's arguments with respect to rejected claims 8-20 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAI NGUYEN whose telephone number is (571)272-4567. The examiner can normally be reached on M-F (7:30 A.M - 4:30 P.M).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on 571-272-4419. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

tn
10/28/09